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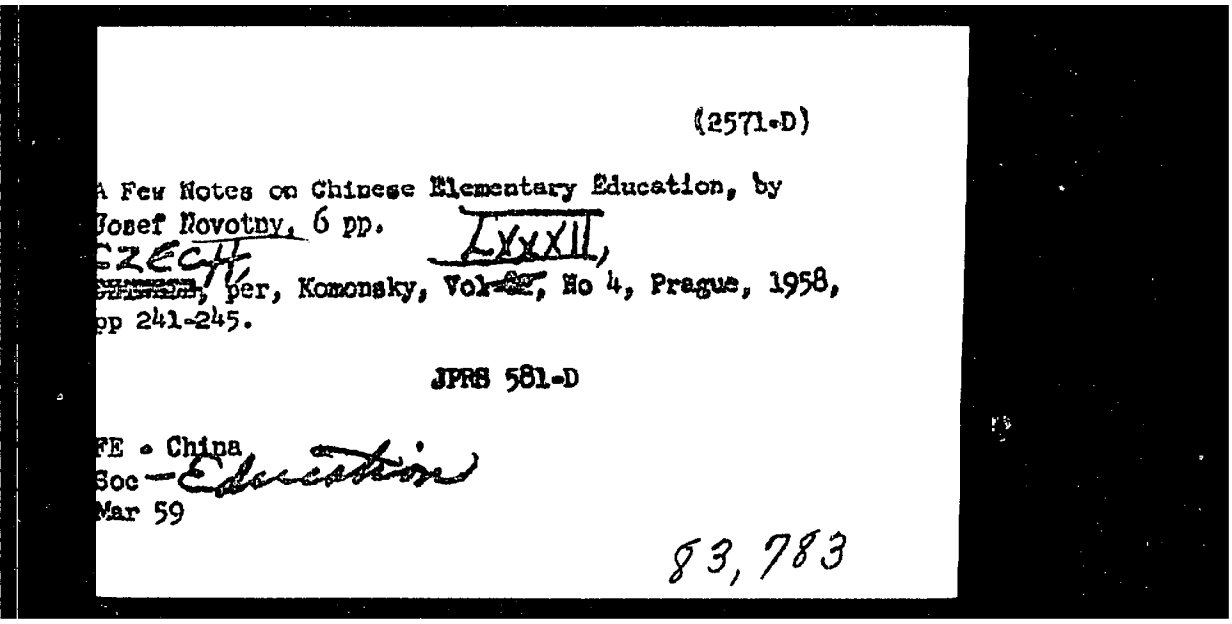

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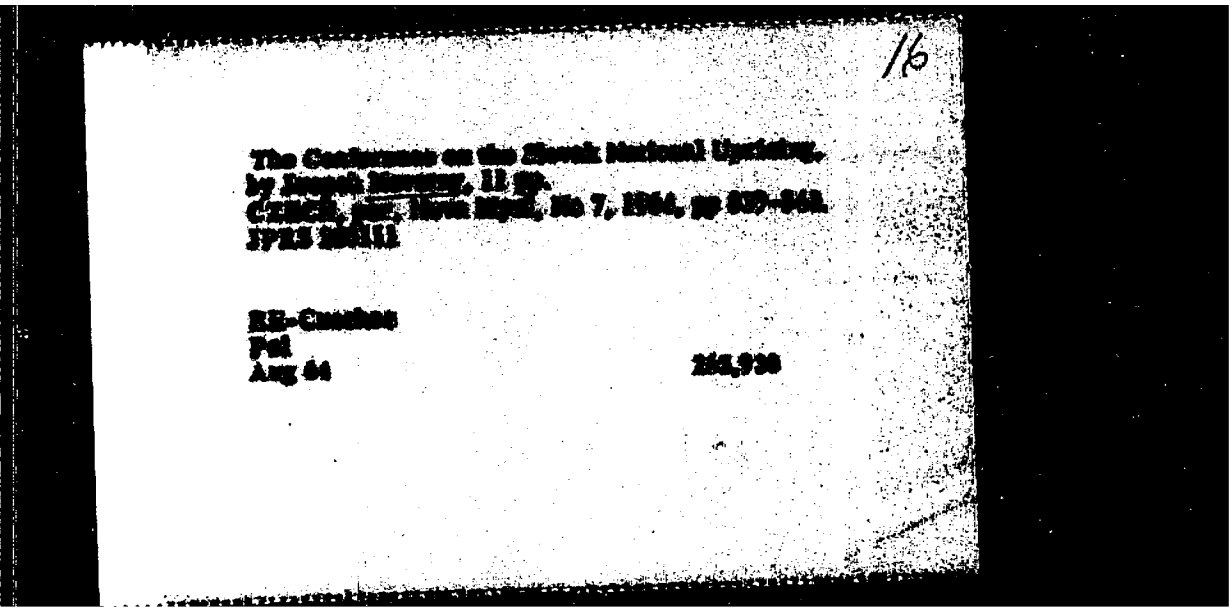

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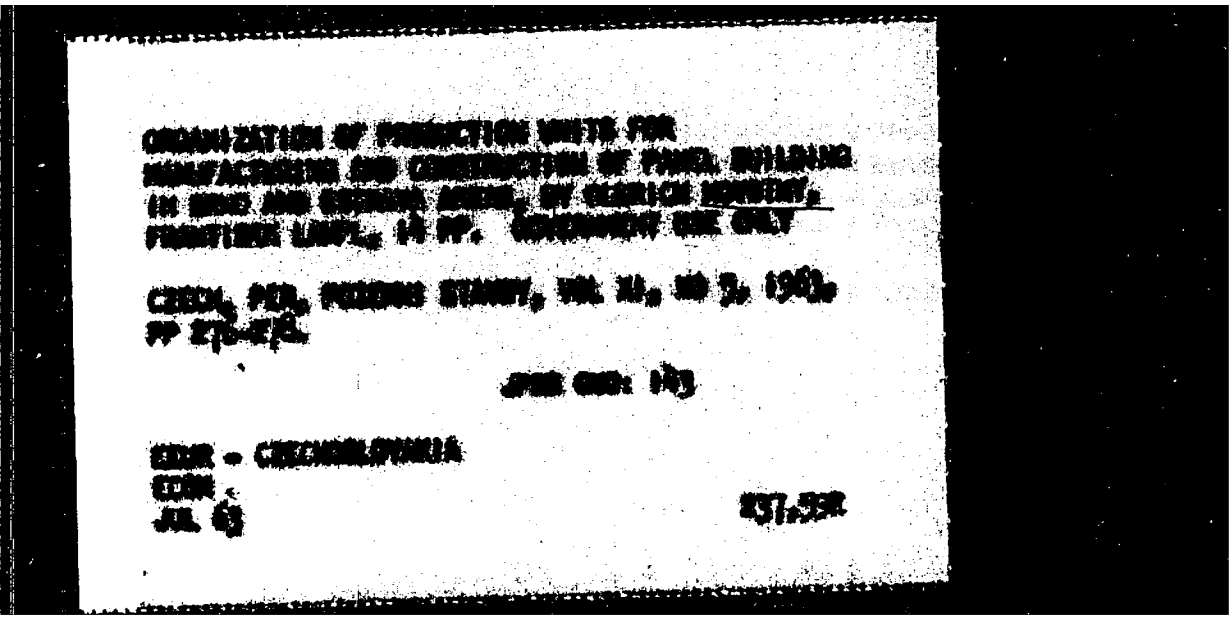

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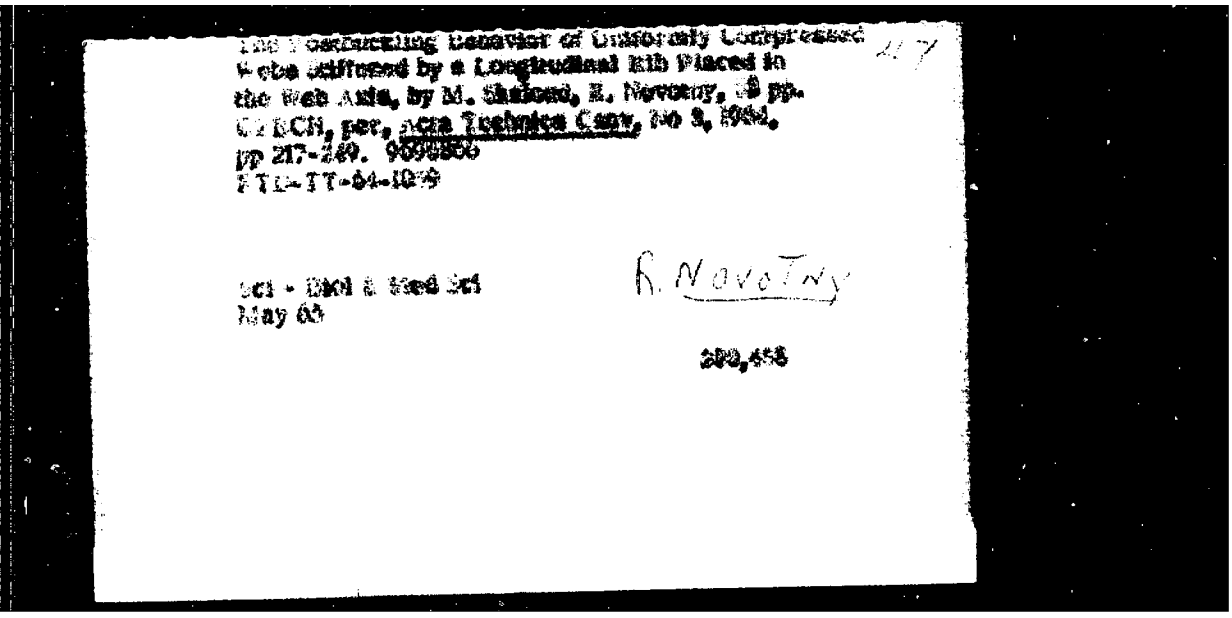

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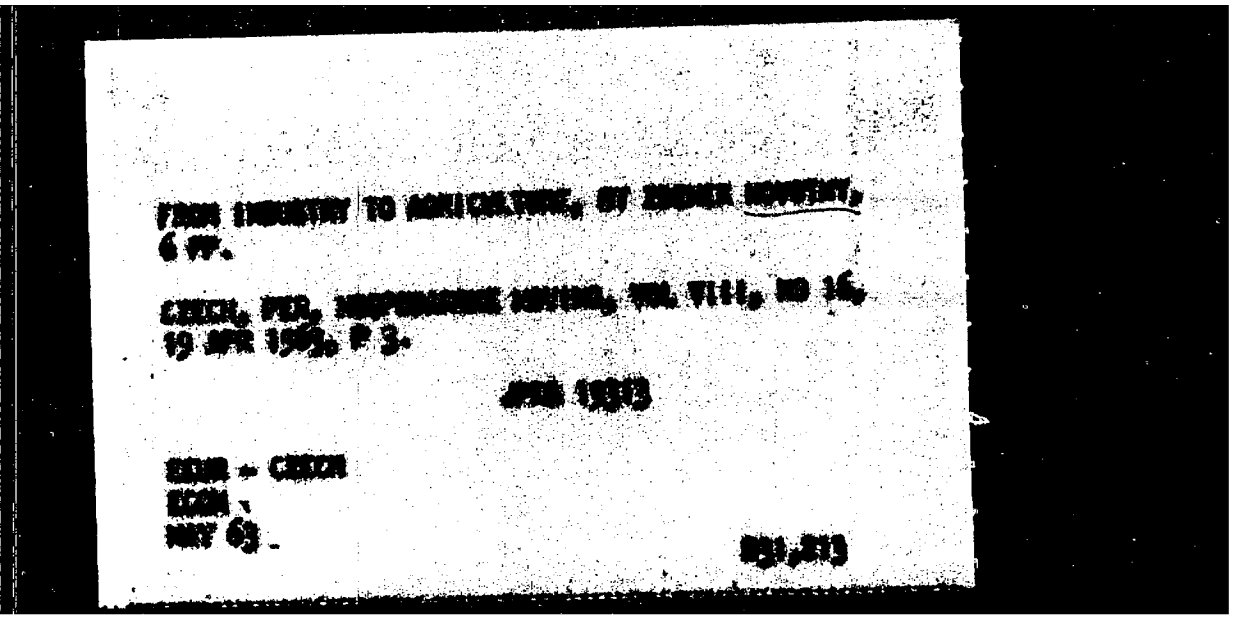

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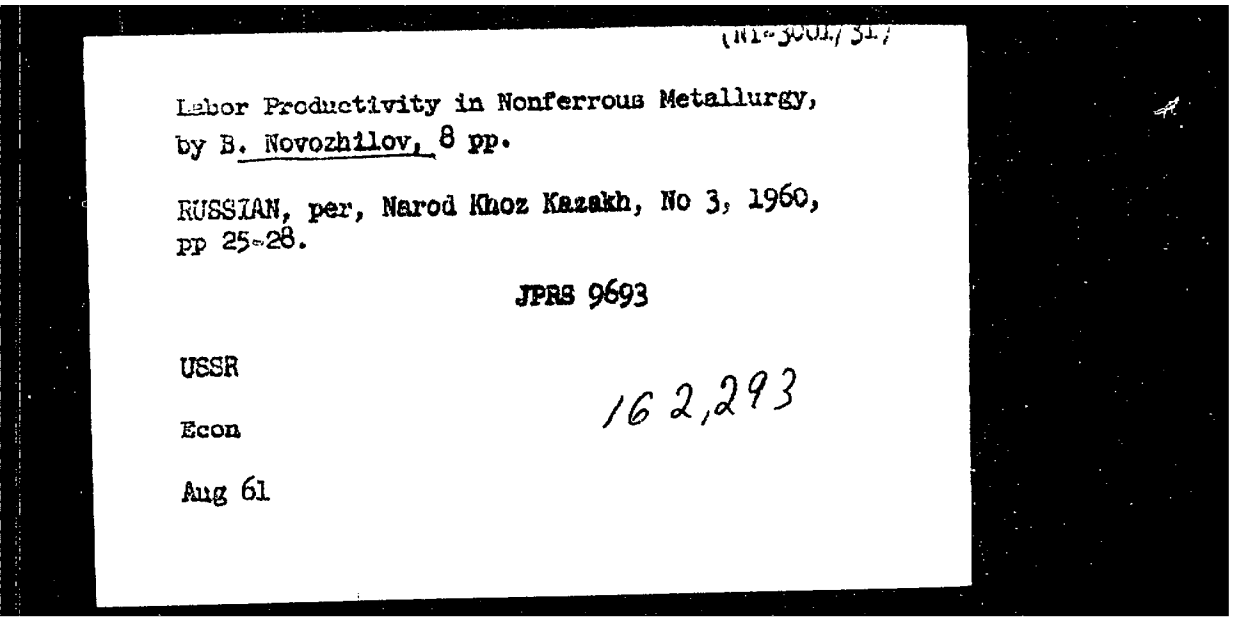

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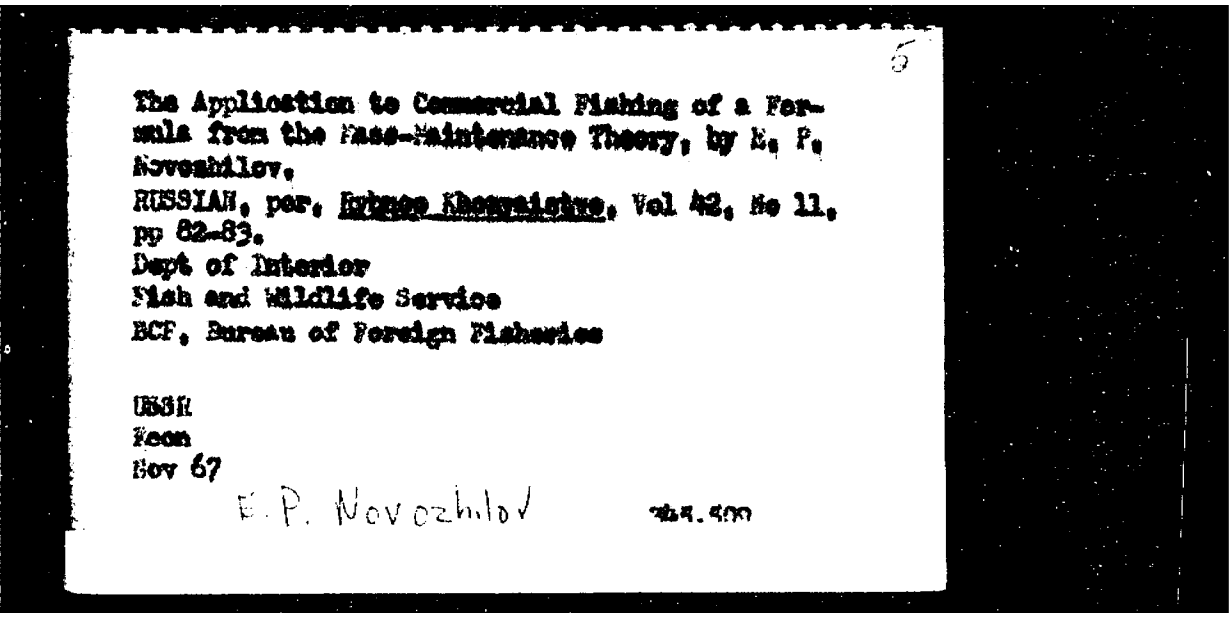

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Dept of Interior
Fish and Wildlife Service
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USSR
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Nov 67

E. P. Novozhilov

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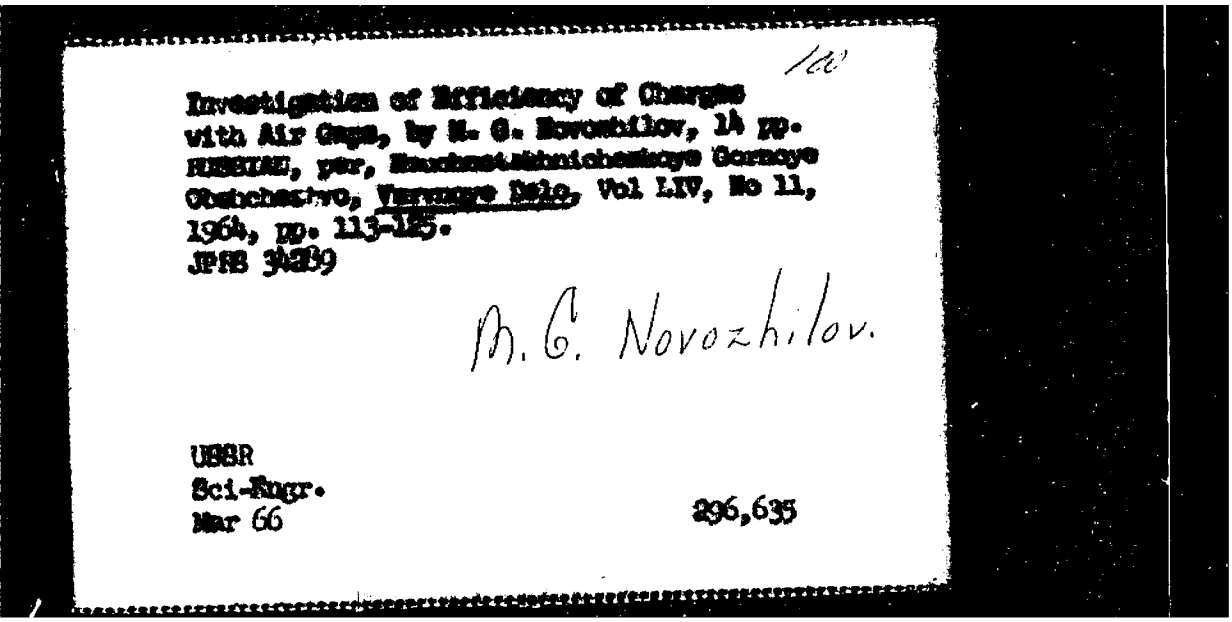

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JPRS 30239

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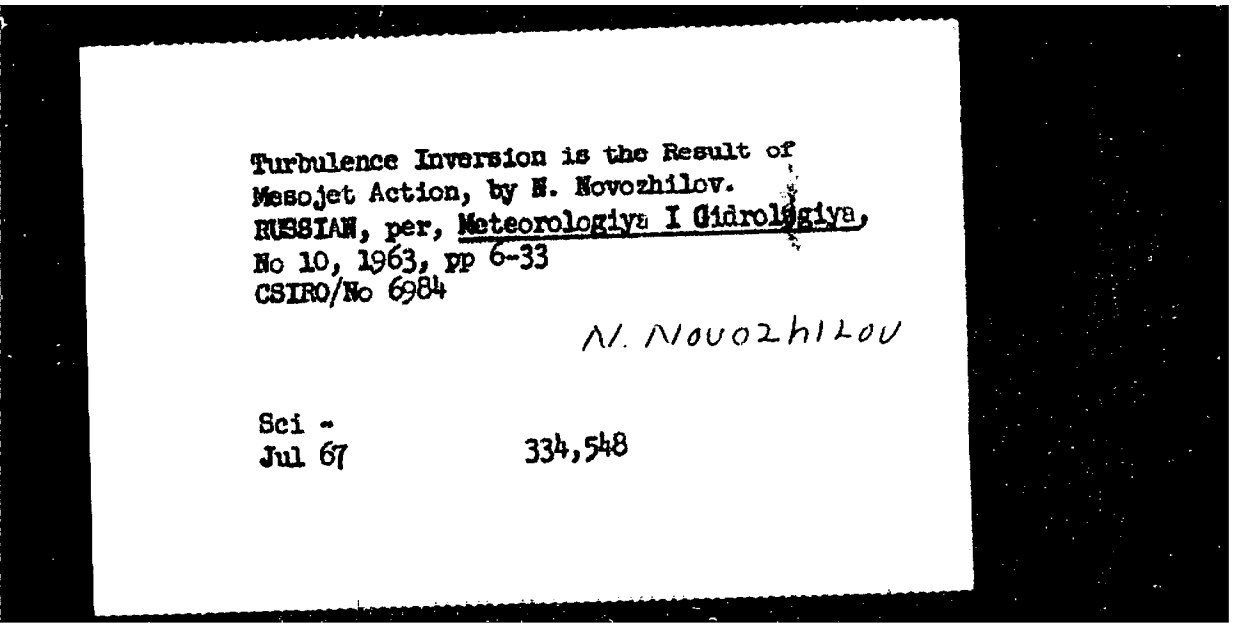

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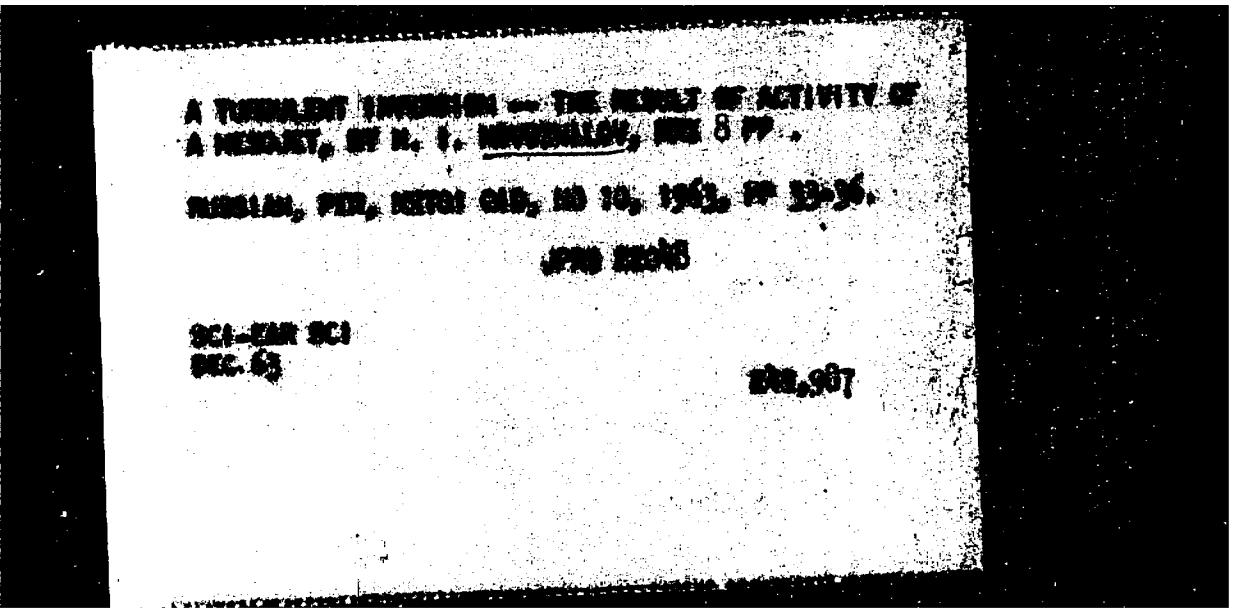

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Novozhilov, N. M. and Sokolova, A. M.
CO_2-SHIELDED SPOT WELDING. [1962] 10p. 4 refs.
Order from OTS or SLA $1.10 62-20021

Trans. of Svarochnoe Proizvodstvo (USSR) 1956 [no. 7] p. 10-13.

DESCRIPTORS: *Spot welding, *Carbon dioxide, Fluxes (Fusion), Joints.

The spot welds made with this method have, compared to similar welds made with the submerged arc process, a more desirable shape as far as depth of fusion and weld reinforcement is concerned. With the CO_2-shielded spot welding process sheets of greater thickness can be spot welded than with the flux process. The strength of CO_2-shielded spot welds is no way inferior to that of flux-shielded spot welds. (Author)

(Metallurgy, TT, v. 9, no. 12)

62-20021

I. Novozhilov, N. M.
II. Sokolova, A. M.

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Novozhilov, N. M.
POROSITY IN GAS-SHIELDED METAL ARC WELDING. [1962] [11]p. 7 refs.
Order from OTS or SLA $1.60 62-20045

Trans. of Svarochnoe Proizvodstvo (USSR) 1955, no. 4, p. 9-13.

DESCRIPTORS: *Arc welding, Metals, Shielding, Gases, Porosity.

The interaction of the gases with the metal is most intense when the welding is carried out with consumable electrodes at high current densities. The principal defect in welding steel by this method is the presence of porosity in the weld metal which is caused by the temperature-dependent change in the solubility in the metal of the active diatomic gases (H_2, N_2, and O_2) and by their reactions in the weld puddle with constituents in the metal (C, S) and with each other. Shielding at atmos-
(Metallurgy, FT, v. 9, no. 9) (over)

62-20045

1. Novozhilov, N. M.

[illegible]67.01

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Novozhilov, N. M.
AUTOMATIC UNDER-WATER WELDING IN AN OXIDIZING ATMOSPHERE. [1962] [7]p. 5 refs.
Order from OTS or SLA $1.10 62-20048

Trans. of Svarochnoe Proizvodstvo (USSR) 1956, no. 2, p. 13-15.

DESCRIPTORS: *Welding, *Underwater, Automatic, Atmosphere, Oxygen.

A method for the automatic under-water welding in a strongly oxidizing protective atmosphere consisting of CO_2 or mixtures of oxygen with CO_2 or inert gases, has been described. In under-water welding, the increased oxidizing power of the protective atmosphere (more than 10 to 15 per cent oxygen) is a useful and necessary property for suppressing the harmful effect of hydrogen and for obtaining sound weld metal. (Metallurgy, TT, v. 9, no. 9) (over)

62-20048

I. Novozhilov, N. M.

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Dry Ice as a Source of CO_2 for Welding, by T. F. Pimenova, A. I. Mikoyan, N. M. Novozhilov, 6 pp.

RUSSIAN, per, Svaroch Proiz, No 11, 1960, pp 35-36.

BWRA

178,994

Sci

Dec 61

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Investigation of the Properties of Weld Metal Deposited in CO_2 by Sv-08GSA and Sv-08G2SA Electrodes, by N. M. Novozhilov, A. M. Sokolova, 11 pp.

RUSSIAN, per, Svarochn Proiz, No 5, 1959, pp 7-11.

British Welding Res Assoc

Sci

Aug 60

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Novozhilov, N. M. and Sokolova, A. M.
THE DEVELOPMENT OF ELECTRODE WIRES FOR WELDING LOW CARBON AND LOW ALLOY STEELS IN CARBON DIOXIDE GAS (Razrabotka Elektrodnykh Provolok dlya Svarki Malouglerodistykh Staley i Nizkolegirovannykh v Uglekislom Gaze). Jan 61 [14]p. 13 refs. RTS 1604.
Order from LC or SLA mi$2.40, ph$3.30 61-15405

Trans. of Svarochnoye Proizvodstvo (USSR) 1958, no. 7, p. 10-14.

Tests made on three electrode wires containing the strong deoxidants aluminum and titanium, did not show them to have any advantages over silicon manganese wires. Rational limits of deoxidizing element contents in electrode wires intended for welding rimming and killed low carbon steels at currents up to 500 amp are 0.05 to 0.12% C, 0.06 to 1.0% Si, and 1.4 to 2.4% Mn.

(Machinery--Manufacturing, TT, v. 5, no. 7)

61-15405

1. Electrodes--Materials
2. Steel--Welding
I. Novozhilov, N. M.
II. Sokolova, A. M.
III. RTS-1604
IV. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Investigation of the Purity of CO_2 used in Gas-Shielded Welding, by N. M. Novozhilov, A. M. Sokolov, 4 pp

RUSSIAN, per. Svaroch Proiz, No 4, 1960, pp 18-19

BWRA

Sci
May 61

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Consumable-Electrode Arc W Welding Process in a Gas Shield, by N. M. Novoshilov.

RUSSIAN, Patent No 104,283, Feb 2, 1952.

MB 4915

Sci - Engr
Jun 62

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

The Development of Electrode Wires for Welding Low Carbon and Low Alloy Steels in Carbon Dioxide Gas, by N. M. Novozhilov, A. M. Sokolova.

RUSSIAN, per, Svaroch Proiz, No 7, 1958, pp 10-14.

DSIR LLU RTS 1604

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Sci - Engr

Oct 60

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Problems Associated With the Weldability of Metals, by N. N. Novozhilov.

RUSSIAN, per, /Avto Delo, Vol XXIII, No 8, 1952.

B.S.A. Res Group
OT/1324

Sci - Engineering, ~~Mineralogy/Metals~~

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

(NY-1374/34)

Aldose Test in Botkin's Disease, by O. D. Novozhilov, 2pp.

RUSSIAN, mo per, Voyenno Med Zhur, No 9, Moscow, Sept 1960, pp 40-41.

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Mar 61

US JPRS 7875

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

(NY-5226)

Experience of the Combined Operation of Electro-communication and Radiofication (Wire-broadcast Networks With Home Loudspeakers) Facilities in Rayon Communications Office, by P. N. Novozhilov, 11 pp.

RUSSIAN, per, Vestnik Svyazi, No 12, 1955.

JPRS 7095

Sci

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

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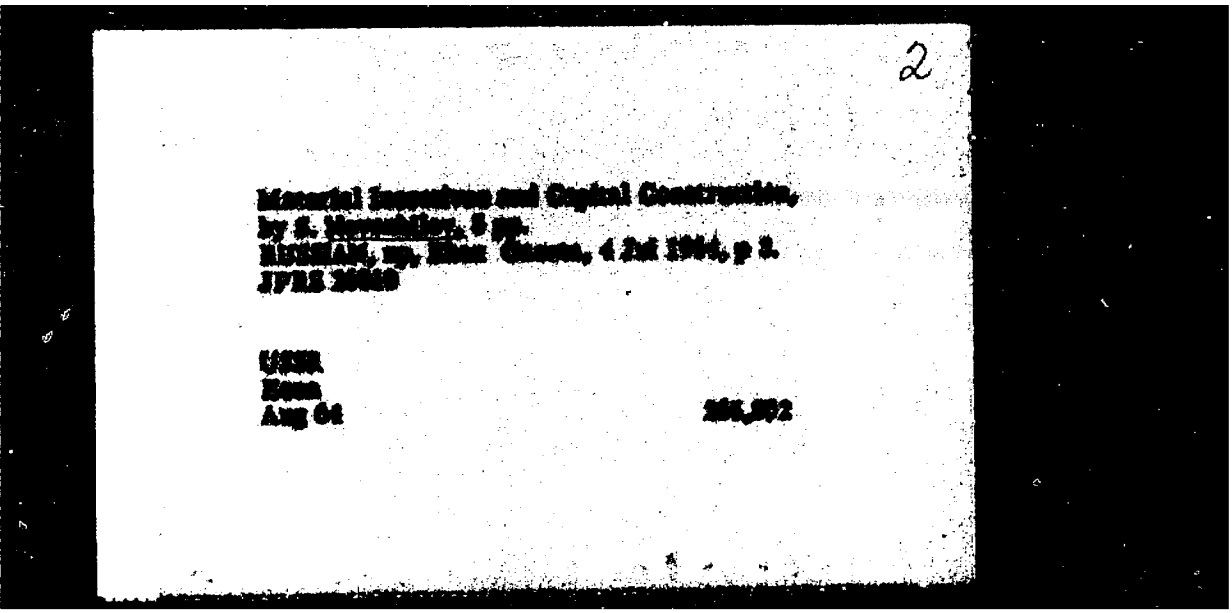

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

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(DC-4700/5)

The New Ruble and Wages, by S. Novozhilov, 4 pp.

RUSSIAN, np, Ekonomicheskaya Gazeta, 26 Nov 1960.

JPRS 6961

USSR

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

The Theory of Labor Value and Mathematics,
by V. Novozhilov, 20 pp
RUSSIAN, per, Voprosy ekonomiki, No 12,
Dec 1964, pp 96-110.
JPRS 29233

USSR
Econ
Mar 65

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Novozhilov, V. and Finkel'stein, R.
ON THE ERROR OF THE KIRCHHOFF HYPOTHESIS IN SHELL THEORY (O Pogreshnosti Gipotez Kirkhgofa v Teorii Obolochek). [1962] [31]p. 7 refs.
Order from OTS or SLA $3.60 62-16104

Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1943, v. 7, no. 5, p. 331-340.

DESCRIPTORS: *Elastic shells, Theory, Errors, Elasticity, Deformation, Stresses, Transformations (Mathematics), Differential equations, Mechanics.

For the purpose of elucidating the inaccuracies mentioned in the title of this paper the authors develop a theory of shells independent of the Kirchhoff and love hypothesis. This theory generalizes and extends the earlier treatments published by Basset and partly by Kiltchevsky. The results obtained lead to the conclu-
(Mechanics, TT, v. 8, no. 5) (over)

62-16104

1. Title: Kirchhoff Hypothesis
I. Novozhilov, V.
II. Finkel'stein, R.

C222674

Office of Technical Services

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

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Theory of Elasticity, by V. V. Novozhilov, 323 pp.

RUSSIAN, bk, Teoriya Uprugosti, 1958.

OTS 61-11401
PL-480

Sci - Phys.

May 62

194, 208

PST 218

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

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On the Displacement of an Absolutely Rigid Body under the Action of an Acoustic Pressure Wave, by V. V. Novozhilov, 5 pp

RUSSIAN, per, Prik Matemat i Mekh, Vol XXIII, No 4 1959, pp 794-796

Pergamon Press

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Feb 60

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A Study of Theories of Fracture Under Combined Stresses, by I. Cornet, R. C. Grassi; Physical Significance of Invariants of Stress Used in the Theory of Plasticity, by V. V. Novozhilov, 45 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol XVI, 1952, pp 617-619.

AEC Tr NP-6712

Sci - Phys

Sep 58

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Theory of Plasticity with Inclusion of the Bauschinger Effect, by Iu. ... Kadashevich, V. V. Novozhilov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVII, No 4, 1957, pp 586-

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Oct 58

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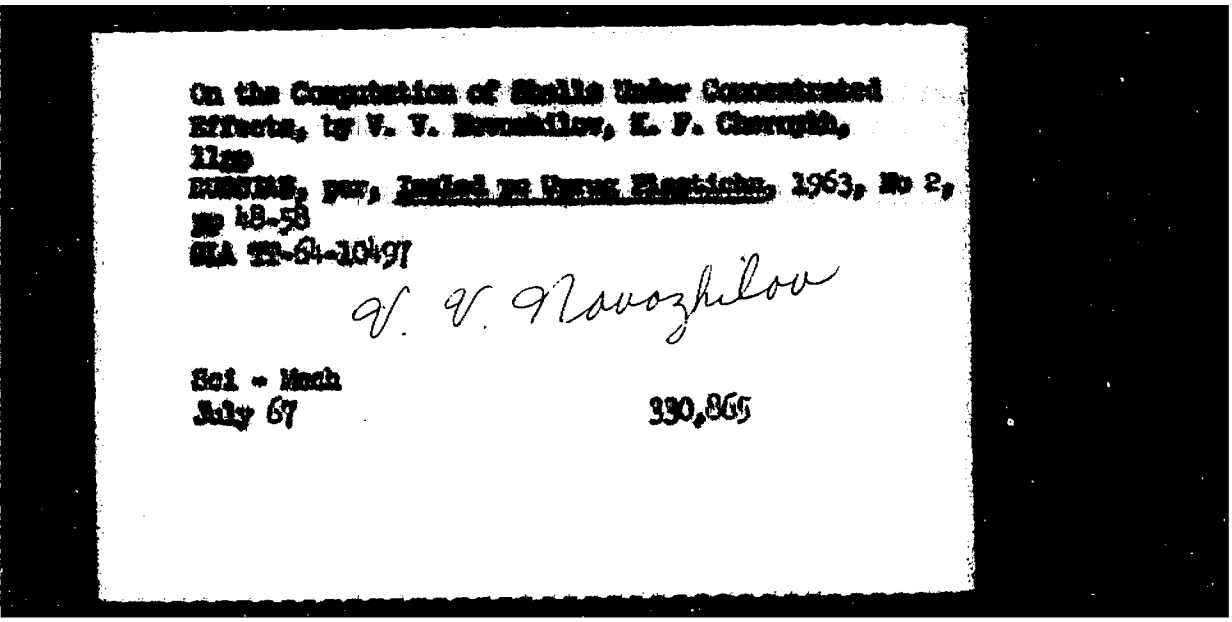

On the Congelation of Shells Under Concentrated Efforts, by V. V. Novozhilov, K. F. Chernykh, Ilya
Novozhilov, pmm, Journal of Applied Mathematics, 1963, No 2, pp 48-58
AEA TT-64-10497

V. V. Novozhilov

Sci - Math
July 67

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APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

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Theory of Thin Shells, by V. V. Novozhilov.

RUSSIAN, bk, 366 pp.

P. Noordhoff, Ltd.
Foreign Department
P. O. Box 39
Groningen - The Netherlands

Sci - Physics
Jan 60

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

APPROVED FOR RELEASE: Monday, June 30, 2003 CIA-RDP91-00929R000100230032-1

Foundations of the Nonlinear Theory of Elasticity, by V. V. Novozhilov.

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Rochester, N. Y.

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The Theory of Thin Shells, by V. V. Novozhilov, 372 pp.

RUSSIAN, bk, 1960.

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Sci

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On the Computation of Shells Under Concentrated Effects, by V. V. Novozhilov, K. F. Chernykh, 11 pp.

RUSSIAN, per, Issled po Uprug i Plastichn, No 2, 1963, pp 48-58.

CIA/FDD X-5286

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Sci - Math
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The Theory of Plasticity Which Takes into Account Residual Microstresses, by Yu. I. Kadashevich, V. V. Novozhilov, 15 pp.

RUSSIAN, per, Prik Matemat i Mekh, Vol XXII, No 1, 1958, 78-89.

Pergamon Inst

Sci - Mathematics, Physics
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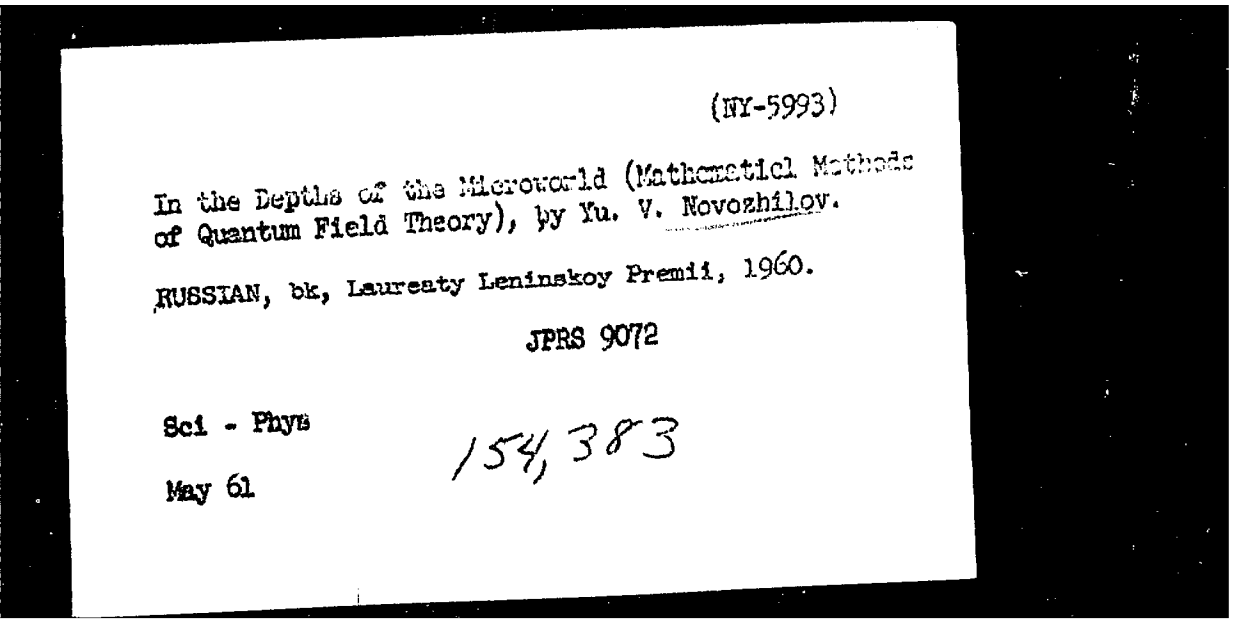

(NY-5993)

In the Depths of the Microworld (Mathematical Methods of Quantum Field Theory), by Yu. V. Novozhilov.

RUSSIAN, bk, Laureaty Leninskoy Premii, 1960.

JPRS 9072

Sci - Phys

May 61

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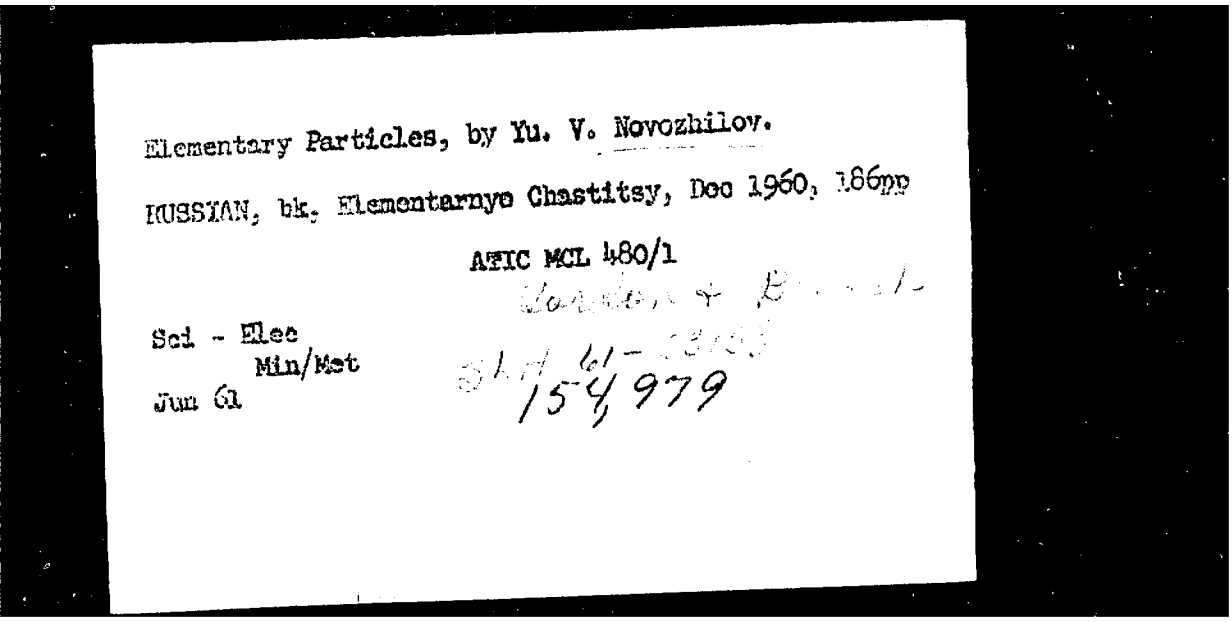

Elementary Particles, by Yu. V. Novozhilov.

RUSSIAN, bk, Elementarnye Chastitsy, Dec 1960, 186pp

AFIC MCL 480/1

Sci - Elec
Min/Met
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Some Properties of Dressed Particle Operators in Field Theory, by M. A. Braun, Yu. V. Novozhilov, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX, No 5 (11), 1960, pp 1317-1322.

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Vol XII, No 5

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The Method of Functionals in the Quantum Theory of Fields, by Yu. V. Novozhilov, A. V. Tulub, 68 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXI, No 1, 1957, pp 53-102.

AEC-tr-3971
PL-480

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Nuclear Forces and the Scattering of π^0 Mesons, by Yu. V. Novozhilov, 8 pp.

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Vol VI (33), No 4

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The Method of Functionals in the Quantum Theory of [redacted] Fields, by Yu. V. Novozhilov, A. V. Tulub, 86 pp.

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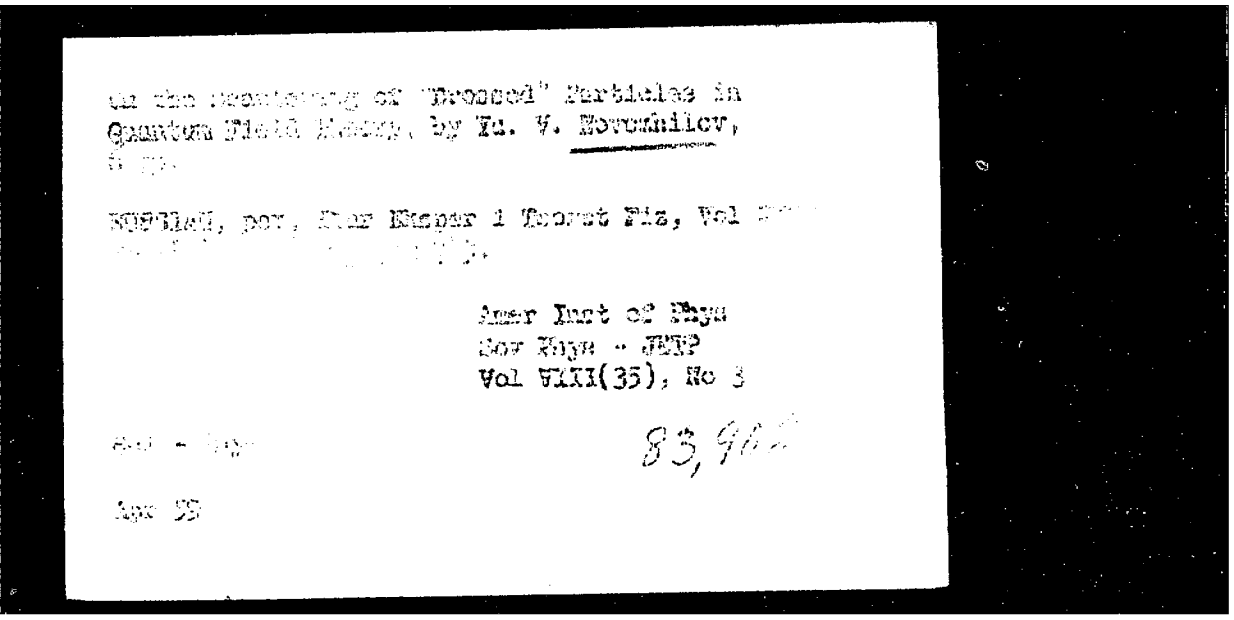

on the Processing of "Dressed" Particles in
Quantum Field Theory, by Yu. V. Novozhilov,
6 pp.

Kratkiye soobshcheniya Fizicheskiy Institut im P.N. Lebedeva, Akademiya Nauk SSSR, No. 5, pp. 3-8, 1958

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Vol VIII(35), No 3

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Quantum Field Theory With Causal Operators, by
Yu. V. Novozhilov, 9 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXI,
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Sci - Physics
Jun 57

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A Rapid Micromethod for the Determination of Sulfur in Monomeric and Polymeric Organic Compounds in the Presence of Halogens, Nitrogen, and the Alkali Metals, by A. I. Lebedeva, I. N. Novozhilova, 4 pp.

RUSSIAN, per Zhur Anal Khim, Vol XVI, No 2, 1961, pp 223-225.

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Analysis of Fluoroorganic Compounds. The Use of Pyrohydrolysis for the Simultaneous Microdetermination of Fluorine, Carbon, and Hydrogen, by N. Ye. Gel'man, M. O. Korshun, K. I. Novozhilova, 5 pp.

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Aug 61

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The Diffusion of Antimony in Antimony Doped Germanium, by B. I. Boltaks, V. M. Prokhorova, L. I. Novozhilova, 10 pp.

RUSSIAN, per, Zhur Tekh Fiz, XXVIII, 1958, pp 990.

FDD/X-3218

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Phosphorus Compounds in Developing Cultures of Azotobacter Vinelandii, by G. N. Zaitseva, A. N. Belozerskiy, L. P. Novozhilova, 12 pp.

RUSSIAN, per, Biokhimiya, Vol XXIV, No 6, 1959, pp 1054-1065.

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The Effect of the Calcium Ion on the Nitrogen and Phosphorus Metabolism of Azotobacter Vinelandiy, by G. N. Zaitseva, A. N. Belozerskiy, L. P. Novozhilova, 5 pp.

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A Study of the Phosphorus Compounds in the Development of Azobacter vinelandii Using P^{32}, By G. N. Zaitseva, A. N. Belozerskiy, and L. P. Novoshilova, 9 pp.

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Sci - Biology
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Quantitative Distribution and Species Composition of Yeasts of the Rybinsk Reservoir, by E. P. Rozanova, and M. I. Novozhilova, 5 pp.

RUSSIAN, per, Mikrobiol, Vol XXVII, No 3, 1958, pp 371-375.

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Sci - Biology
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Microbiological Studies on Beloe Lake, Vologda Oblast, by S. A. Krasheninnikova, M. I. Novozhilova, 5 pp.

RUSSIAN, per, Mikrobiolog, Vol XXVIII, No 1, 1959, pp 80-85.

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